

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Gilbert Wolrich et al.	Art Unit	: 2189
Serial No.	: 10/070,006	Examiner	: Behzad Peikari
Filed	: February 28, 2002	Conf. No.	: 5728
Title	: DOUBLE SHIFT INSTRUCTION FOR MICRO ENGINE USED IN MULTITHREADED PARALLEL PROCESSOR ARCHITECTURE		

**MAIL STOP RCE**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Applicant requests consideration of the references listed on the attached PTO-1449 form.

Applicant has previously provided copies of all the cited references and thus applicant has not enclosed copies of these references with this communication.

As requested by the examiner, applicant has listed the U.S. patents and publications separately from the five unpublished references.

The examiner also requested "for the five unpublished U.S. applications, other information including office actions, affidavits, etc. that demonstrate the relevance that may be required" (Notice of Allowability, page 2, paragraph 1(C)). Applicant notes that, in accordance with MPEP 609.01(B)(2)(d), all information concerning relevancy, including office actions, affidavits, etc., for the references identified as AR through AV (located on the first page of the attached PTO Forms 1449), can be found on the U.S. Patent and Trademark Office's PAIR system.

The examiner stated:

the reference JP 59111533 is not in accordance with 37 CFR 1.98(a)(3)(i). It has no proper concise explanation of relevance because the English language abstract has been translated in a manner replete with errors to the extent that it is confusing and cannot be properly understood. (Notice of Allowability, page 2, paragraph 1(B))

Applicant notes that MPEP 609.A(3) states, in relation to the requirement to provide a concise explanation of relevance for non-English language information, "[s]ubmission of an English language abstract may fulfill the requirement for a concise explanation." Although Japanese reference no. JP59111533 includes an English Abstract, and thus a concise explanation of the relevance of this reference does not have to be provided by applicant, for the sake of expediency, the undersigned will attempt to clarify the abstract for the examiner. To the best of the undersigned's understanding of the abstract of the reference, the reference is directed to an arrangement that enables speedy performance of commands for controlling arithmetic-device operations by causing data required in the course of

executing a current command to be read from a memory location while resultant data from operation of the arithmetic device for a preceding command is stored into a destination memory location.

The examiner noted that the publication "What is Hart" by Bowden was not listed on an IDS. Applicant has accordingly identified this publication on the attached PTO-1449 form. For the examiner convenience, the attached PTO-1449 form includes all the references previously submitted, including those considered and initialed by the examiner. Applicant is not including copies of these references as it is applicant's understanding that the examiner already has copies of these references.

Should there be any further problems or concerns, the examiner is invited to call the undersigned attorney at 617-368-2105 to resolve any outstanding issues that may still exist.

This filing is being made with the filing of a Request for Continued Examination.

No fee is believed due. Please apply any charges to deposit account 06-1050, referencing the attorney docket number shown above.

Respectfully submitted,

Date:

*July 27, 2006*

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-302US1	Application No. 10/070,006
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Gilbert Wolrich et al.	
		Filing Date February 28, 2002	Group Art Unit 2189

(37 CFR §1.98(b))

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,023,023	05/10/1977	Bourrez et al.			
	AB	5,113,516	05/12/1992	Johnson			
	AC	5,363,448	11/08/1994	Koopman, Jr. et al.			
	AD	5,436,626	07/25/1995	Fujiwara et al.			
	AE	5,600,812	02/04/1997	Park			
	AF	5,652,583	07/29/1997	Kang			
	AG	5,717,760	02/10/1998	Satterfield			

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AH	WO 01/16697	03/2001	WIPO				
	AI	WO 01/16698	03/2001	WIPO				
	AJ	WO 01/16702	03/2001	WIPO				
	AK	WO 01/16703	03/2001	WIPO				
	AL	WO 01/16713	03/2001	WIPO				
	AM	WO 01/16714	03/2001	WIPO				
	AN	WO 01/16715	03/2001	WIPO				
	AO	WO 01/16716	03/2001	WIPO				
	AP	WO 01/16722	03/2001	WIPO				
	AQ	WO 01/18646	03/2001	WIPO				

**Other Documents (Include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AR	Wolrich et al. U.S. Application Serial No. 09/473,571, filed 12/28/1999.
	AS	Wolrich et al. U.S. Application Serial No. 09/475,614, filed 12/30/1999.
	AT	Wolrich et al. U.S. Application Serial No. 09/476,303, filed 12/30/1999.
	AU	Adiletta et al. U.S. Application Serial No. 09/387,109, filed 8/31/1999.

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**Other Documents (Include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AV	Bernstein et al. U.S. Application Serial No. 09/747,019, filed 12/21/2000.
	AW	Romilly Bowden. "What is HART?" Romilly's HART® and Fieldbus Web Site, 1997. <URL: <a href="http://www.romilly.co.uk/whathart.htm">http://www.romilly.co.uk/whathart.htm</a> >
	AX	
	AY	
	AZ	
	AAA	
	ABB	
	ACC	
	ADD	
	AEE	
	AFF	
	AGG	
	AHH	
	AII	
	AJJ	
	AKK	
	ALL	
	AMM	
	ANN	
	AOO	
	APP	
	AQQ	
	ARR	
	ASS	
	ATT	

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### Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AA	WO 01/50679	07/12/2001	WIPO				
	AB	WO 01/50247	07/12/2001	WIPO				
	AC	WO 01/48619	07/05/2001	WIPO				
	AD	WO 01/48606	07/05/2001	WIPO				
	AE	WO 01/48599	07/05/2001	WIPO				
	AF	WO 01/48596	07/05/2001	WIPO				
	AG	WO 01/41530	06/14/2001	WIPO				
	AH	WO 01/16782	03/08/2001	WIPO				
	AI	WO 01/16770	03/08/2001	WIPO				
	AJ	WO 01/16769	03/08/2001	WIPO				
	AK	WO 01/16718	03/08/2001	WIPO				
	AL	WO 01/16758	03/08/2001	WIPO				
	AM	WO 01/15718	03/08/2001	WIPO				
	AN	WO 97/38372	10/16/1997	WIPO				
	AO	WO 94/15287	07/07/1994	WIPO				
	AP	EP 0 809 180	11/26/1997	Europe				
	AQ	EP 0 745 933	12/04/1996	Europe				
	AR	EP 0 633 678	01/11/1995	Europe				
	AS	EP 0 464 715	01/08/1992	Europe				
	AT	EP 0 379 709	08/01/1990	Europe				
	AU	59111533	06/27/1984	Japan				

### Other Documents (Include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AV	Agarwal et al., "April: A Processor Architecture for Multiprocessing," Proceedings of the 17 <sup>th</sup> Annual International Symposium on Computer Architecture, IEEE, pp. 104-114.
	AW	Byrd et al., "Multithread Processor Architectures," <i>IEEE Spectrum</i> , Vol. 32, No. 8, New York, 1 August 1995, pp. 38-46.
	AX	Doyle et al., <i>Microsoft Press Computer Dictionary</i> , 2 <sup>nd</sup> ed., Microsoft Press, Redmond, Washington, USA, 1994, p. 326.

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by Applicant**  
(Use several sheets if necessary)

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**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AY	Farkas et al., "The multicluster architecture: reducing cycle time through partitioning," IEEE, vol. 30, December 1997, pp. 149-159.
	AZ	Fillo et al., "The M-Machine Multicomputer," IEEE Proceedings of MICRO-28, 1995, pp. 146-156.
	AAA	Gomez et al., "Efficient Multithreaded User-Space Transport for Network Computing: Design and Test of the TRAP Protocol," <i>Journal of Parallel and Distributed Computing</i> , Academic Press, Duluth, Minnesota, USA, vol. 40, no. 1, 10 January 1997, pp. 103-117.
	ABB	Haug et al., "Reconfigurable hardware as shared resource for parallel threads," IEEE Symposium on FPGAs for Custom Computing Machines, 1998.
	ACC	Hauser et al., "Garp: a MIPS processor with a reconfigurable coprocessor," Proceedings of the 5 <sup>th</sup> Annual IEEE Symposium on Field-Programmable Custom Computing Machines, 1997.
	ADD	Hennessy et al., "Computer Organization and Design: The Hardware/Software Interface," Morgan Kaufman Publishers, pp. 476-482 (1998).
	AEE	Hyde, R., "Overview of Memory Management," <i>Byte</i> , vol. 13, no. 4, 1998, pp. 219-225.
	AFF	Keckler et al., "Exploiting fine grain thread level parallelism on the MIT multi-ALU processor," IEEE, June 1998.
	AGG	Litch et al., "StrongARMing Portable Communications," IEEE Micro, 1998, pp. 48-55.
	AHH	Mendelson et al., "Design Alternatives of Multithreaded Architecture," <i>International Journal of Parallel Programming</i> , vol. 27, no. 3, Plenum Press, New York, USA, June 1999, pp. 161-193.
	AII	Paver et al., "Register Locking in Asynchronous Processor Computer Design: VLSI Processors," ICCD '92 Proceedings, IEEE 1992 International Conference, 1992, pp. 385-398.
	AJJ	Schmidt et al., "The Performance of Alternative Threading Architectures for Parallel Communication Subsystems," Internet Document, <i>Online!</i> , 13 November 1998.
	AKK	Thistle et al., "A Processor Architecture for Horizon," IEEE, 1998, pp. 35-41.
	ALL	Tremblay et al., "A Three Dimensional Register File for Superscalar Processors," IEEE Proceedings of the 28 <sup>th</sup> Annual Hawaii International Conference on System Sciences, 1995, pp. 191-201.
	AMM	Trimberger et al., "A time-multiplexed FPGA," Proceedings of the 5 <sup>th</sup> Annual IEEE Symposium on Field-Programmable Custom Computing Machines, 1998.
	ANN	Turner et al., "Design of a High Performance Active Router," Internet Document, <i>Online</i> , 18 March 1999.
	AOO	Vibhatvanij et al., "Simultaneous Multithreading-Based Routers," Proceedings of the 2000 International Conference of Parallel Processing, Toronto, Ontario, Canada, 21-24 August 2000, pp. 362-359.
	APP	Waldspurger et al., "Register Relocation: Flexible Contents for Multithreading," Proceedings of the 20 <sup>th</sup> Annual International Symposium on Computer Architecture, 1993, pp. 120-130.
	AQQ	Wazlowski et al., "PRSIM-II computer and architecture," IEEE Proceedings, Workshop on FPGAs for Custom Computing Machines, 1993.
	ARR	Wadler. "The Concatenate Vanishes". University of Glasgow, November 1989, pp. 1-7.
	ASS	Schmidt et al., "The Performance of Alternative Threading Architectures for Parallel Communication Subsystems". Submitted to Journal of Parallel and Distributed Computing, pp. 1-19.

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**Other Documents (Include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	ATT	Moors, et al. "Cascading Content – Addressable Memories. IEEE 12(3):56-66, June 1992.
	AUU	"HART Field Communication Protocol – Application Guide". HART Communications Foundation, pp. 1-74, 1999.

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### U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	20020053017	05/02/2002	Adiletta et al.			
	AB	20020056037	05/09/2002	Wolrich et al.			
	AC	20030041228	02/27/2003	Rosenbluth et al.			
	AD	20030145159	07/31/2003	Adiletta et al.			
	AE	20030191866	10/09/2003	Wolrich et al.			
	AF	20040039895	02/26/2004	Wolrich et al.			
	AG	20040054880	03/18/2004	Bernstein et al.			
	AH	20040071152	04/15/2004	Wolrich et al.			
	AI	20040073728	04/15/2004	Wolrich et al.			
	AJ	20040073778	04/15/2004	Adiletta et al.			
	AK	20040098496	05/20/2004	Wolrich et al.			
	AL	20040109369	06/10/2004	Wolrich et al.			
	AM	20040205747	10/14/2004	Bernstein et al.			
	AN	3373408	03/12/1968	Ling			
	AO	3478322	11/11/1969	Evans			
	AP	3792441	02/12/1974	Wymore et al.			
	AQ	3913074	10/14/1975	Hornberg et al.			
	AR	3940745	02/24/1976	Sajeva			
	AS	4130890	12/19/1978	Adam			
	AT	4392758	07/12/1983	Bowles et al.			
	AU	4400770	08/23/1983	Chan et al.			
	AV	4514807	04/30/1985	Nogi			
	AW	4523272	06/11/1985	Fukunaga et al.			
	AX	4724521	02/09/1988	Carron et al.			
	AY	4745544	05/17/1988	Renner et al.			
	AZ	4777587	10/11/1988	Case et al.			
	AAA	4866664	09/12/1989	Burkhardt Jr. et al.			

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## U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ABB	5073864	12/17/1991	Methvin et al.			
	ACC	5140685	08/18/1992	Sipple et al.			
	ADD	5142683	08/25/1992	Burkhardt Jr. et al.			
	AEE	5155831	10/13/1992	Emma et al.			
	AFF	5155854	10/13/1992	Flynn et al.			
	AGG	5168555	12/01/1992	Byers et al.			
	AHH	5173897	12/22/1992	Schrodi et al.			
	AII	5255239	10/19/1993	Taborn et al.			
	AJJ	5263169	11/16/1993	Genusov et al.			
	AKK	5347648	09/13/1994	Stamm et al.			
	ALL	5357617	10/18/1994	Davis et al.			
	AMM	5367678	11/22/1994	Lee et al.			
	ANN	5390329	02/14/1995	Gaertner et al.			
	AOO	5392391	02/21/1995	Caulk Jr. et al.			
	APP	5392411	02/21/1995	Ozaki			
	AQQ	5392412	02/21/1995	McKenna			
	ARR	5404464	04/04/1995	Bennett			
	ASS	5404482	04/04/1995	Stamm et al.			
	ATT	5428809	06/27/1995	Coffin et al.			
	AUU	5432918	07/11/1995	Stamm			
	AVV	5442756	08/15/1995	Grochowski et al.			
	AWW	5448702	09/05/1995	Garcia Jr. et al.			
	AXX	5450351	09/12/1995	Heddes			
	AYY	5452437	09/19/1995	Richey et al.			
	AZZ	5459842	10/17/1995	Begun et al.			
	AAAA	5463625	10/31/1995	Yasrebi			
	ABBB	5467452	11/14/1995	Blum et al.			

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(37 CFR §1.98(b))

## U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date if Appropriate
	ACCC	5481683	01/02/1996	Karim			
	ADDD	5487159	01/23/1996	Byers et al.			
	AEEE	5517628	05/14/1996	Morrison et al.			
	AFFF	5517648	05/14/1996	Bertone et al.			
	AGGG	5542070	07/30/1996	LeBlanc et al.			
	AHHH	5542088	07/30/1996	Jennings Jr. et al.			
	AIII	5544236	08/06/1996	Andruska et al.			
	AJJJ	5550816	08/27/1996	Hardwick et al.			
	AKKK	5557766	09/17/1996	Takiguchi et al.			
	ALLL	5568617	10/22/1996	Kametani			
	AMMM	5574922	11/12/1996	James			
	ANNN	5574939	11/12/1996	Keckler et al.			
	AOOO	5592622	01/07/1997	Isfeld et al.			
	APPP	5606676	02/25/1997	Grochowski et al.			
	AQQQ	5613071	03/18/1997	Rankin et al.			
	ARRR	5613136	03/18/1997	Casavant et al.			
	ASSS	5623489	04/22/1997	Cotton et al.			
	ATTT	5627829	05/06/1997	Gleeson et al.			
	AUUU	5630130	05/13/1997	Perotto et al.			
	AVVV	5644623	07/01/1997	Gulledge			
	AWWW	5649157	07/15/1997	Williams			
	AXXX	5659687	08/19/1997	Kim et al.			
	AYYY	5659722	08/19/1997	Blaner et al.			
	AZZZ	5680641	10/21/1997	Sidman			
	AAAAA	5689566	11/18/1997	Nguyen			
	ABBBB	5692167	11/25/1997	Grochowski et al.			
	ACCCC	5699537	12/16/1997	Sharrangpani et al.			

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U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date if Appropriate
	ADDD	5717898	02/10/1998	Kagan et al.			
	AEEEE	5721870	02/24/1998	Matsumoto			
	AFFFF	5742587	04/21/1998	Zornig et al.			
	AGGGG	5742782	04/21/1998	Ito et al.			
	AHHHH	5742822	04/21/1998	Motomura			
	AIIII	5745913	04/28/1998	Pattin et al.			
	AJJJJ	5751987	05/12/1998	Mahant-Shetti et al.			
	AKKKK	5761507	06/02/1998	Govett			
	ALLLL	5761522	06/02/1998	Hisanaga et al.			
	AMMMM	5781774	07/14/1998	Krick			
	ANNNN	5784649	07/21/1998	Begur et al.			
	AOOOO	5784712	07/21/1998	Byers et al.			
	APPPP	5796413	08/18/1998	Shipp et al.			
	AQQQQ	5797043	08/18/1998	Lewis et al.			
	ARRRR	5809235	09/15/1998	Sharma et al.			
	ASSSS	5809530	09/15/1998	Samra et al.			
	ATTTT	5812839	09/22/1998	Hoyt et al.			
	AUUUU	5812868	09/22/1998	Moyer et al.			
	AVVVV	5828746	10/27/1998	Ardon			
	AWWWW	5828863	10/27/1998	Barrett et al.			
	AXXXX	5832215	11/03/1998	Kato et al.			
	AYYYY	5835755	11/10/1998	Stellwagen Jr.			
	AZZZZ	5854922	12/29/1998	Gravenstein et al.			
	AAAAAA	5860158	01/12/1999	Pai et al.			
	ABBBBB	5886992	03/23/1999	Raatikainen et al.			
	ACCCCC	5887134	03/23/1999	Ebrahim			
	ADDDDD	5890208	03/30/1999	Kwon			

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(37 CFR §1.98(b))			

## U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date if Appropriate
	AE EEEE	5892979	04/06/1999	Shiraki et al.			
	AF FFFF	5905876	05/18/1999	Pawlowski et al.			
	AG GGGG	5905889	05/18/1999	Wilhelm Jr.			
	AH HHHH	5915123	06/22/1999	Mirsky et al.			
	AI IIII	5933627	08/03/1999	Parady			
	AJ JJJJ	5937187	08/10/1999	Kosche et al.			
	AK KKKK	5938736	08/17/1999	Muller et al.			
	AL LLLL	5940612	08/17/1999	Brady et al.			
	AM MMMM	5940866	08/17/1999	Chisholm et al.			
	AN NNNN	5946487	08/31/1999	Dangelo			
	AO OOOO	5948081	09/07/1999	Foster			
	AP PPPP	5951679	09/14/1999	Anderson et al.			
	AQ QQQQ	5958031	09/28/1999	Kim			
	AR RRRR	5961628	10/05/1999	Nguyen et al.			
	AS SSSS	5970013	10/19/1999	Fischer et al.			
	AT TTTT	5978838	11/02/1999	Mohamed et al.			
	AU UUUU	5983274	11/09/1999	Hyder et al.			
	AV VVVV	5996068	11/30/1999	Dwyer III et al.			
	AW WWWW	6002881	12/14/1999	York et al.			
	AX XXXX	6009515	12/28/1999	Steele Jr.			
	AY YYYY	6012151	01/04/2000	Mano			
	AZ ZZ ZZ	6014729	01/11/2000	Lannan et al.			
	AAAA AAA	6023742	02/08/2000	Ebeling et al.			
	ABBBBBB	6029228	02/22/2000	Cai et al.			
	ACCCCCC	6058168	05/02/2000	Braband			
	ADDDDDD	6058465	05/02/2000	Nguyen			
	AE EEEEE	6067585	05/23/2000	Hoang			

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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-302US1	Application No. 10/070,006
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Gilbert Wolrich et al.	
		Filing Date February 28, 2002	Group Art Unit 2186
(37 CFR §1.98(b))			

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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	AGGGGGG	6072781	06/06/2000	Feeney et al.			
	AHHHHHH	6073215	06/06/2000	Snyder			
	AIIIIII	6076158	06/13/2000	Sites et al.			
	AJJJJJJ	6079008	06/20/2000	Clery III			
	AKKKKKK	6079014	06/20/2000	Papworth et al.			
	ALLLLLL	6085215	07/04/2000	Ramakrishnan et al.			
	AMMMMMM	6085294	07/04/2000	Van Doren et al.			
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	AUUUUUU	6141765	10/31/2000	Sherman			
	AVVVVVV	6144669	11/07/2000	Williams et al.			
	AWWWWWW	6145054	11/07/2000	Mehrotra et al.			
	AXXXXXX	6157955	12/05/2000	Narad et al.			
	AYYYYYY	6160562	12/12/2000	Chin et al.			
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	ADDDDDD	6212542	04/03/2001	Kahle et al.			
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	AHHHHHHH	6223238	04/24/2001	Meyer et al.			
	AIHHHH	6223279	04/24/2001	Nishimura et al.			
	AJJJJJJJ	6247025	06/12/2001	Bacon			
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	WWWWWW	6360262	03/19/2002	Guenther et al.			
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	AAAAAAAA	6415338	07/02/2002	Habot			
	ABBBBBBB	6426940	07/30/2002	Seo et al.			
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	ADDDDDDD	6430626	08/06/2002	Witkowski et al.			
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Substitute Form PTO-1448 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 10559-302US1	Application No. 10/070,006
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)		Applicant Gilbert Wolrich et al.	
		Filing Date February 28, 2002	Group Art Unit 2186
(37 CFR §1.98(b))			

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Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AHHHHHHH	6552826	04/22/2003	Adler et al.			
	AIHHHHH	6560667	05/06/2003	Wolrich et al.			
	AJJJJJJJ	6577542	06/10/2003	Wolrich et al.			
	AKKKKKKK	6584522	06/24/2003	Wolrich et al.			
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